

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061573

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D935-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

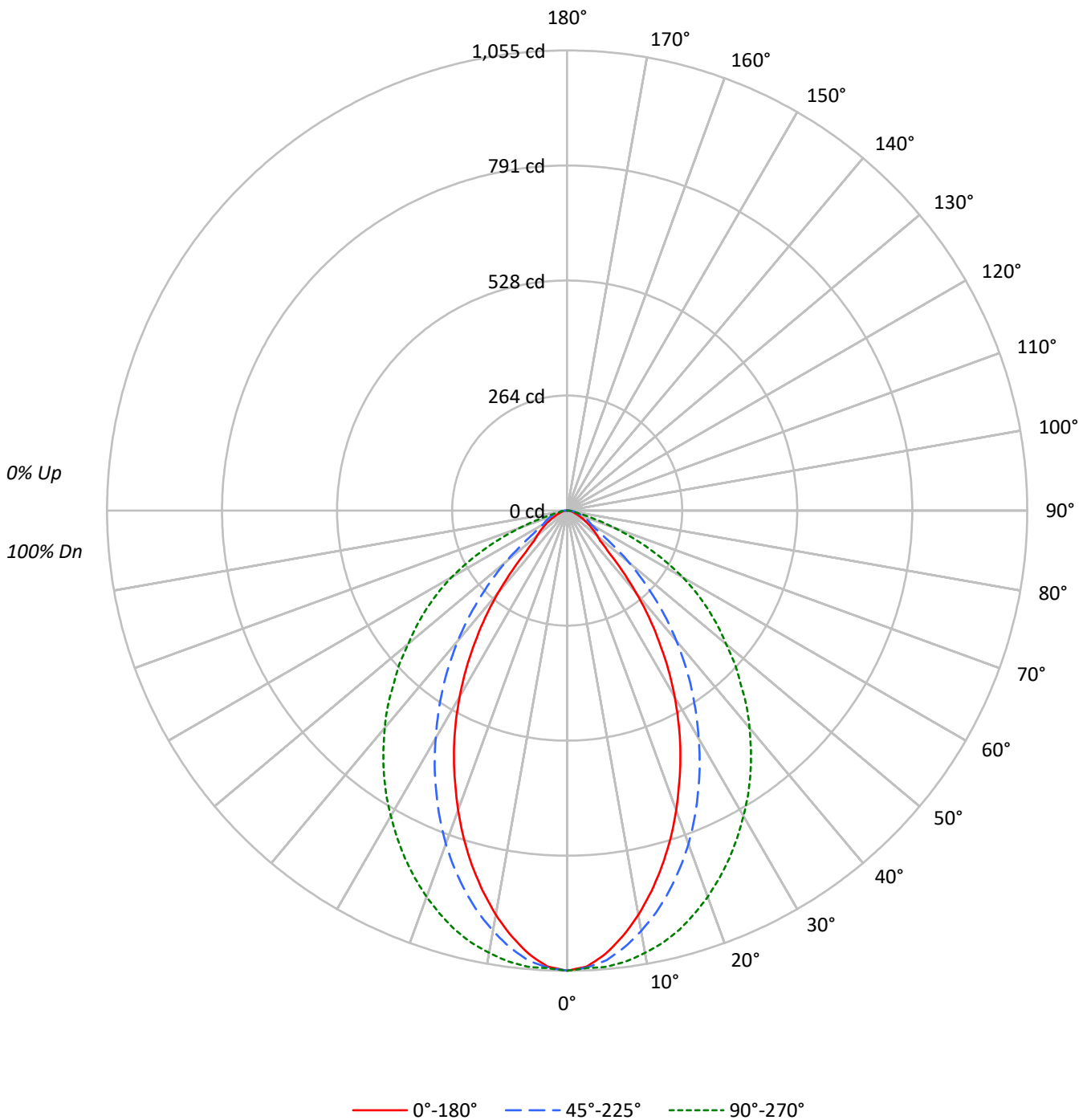
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1523.0 lumens  
Efficiency: N/A  
Efficacy: 36.4 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7263	7263	7263
5°	7048	7151	7256
10°	6578	6840	7199
15°	6003	6440	7090
20°	5354	5959	6904
25°	4667	5399	6682
30°	3920	4795	6426
35°	3092	4175	6163
40°	2216	3509	5848
45°	1304	2754	5482
50°	965	1984	5093
55°	811	1202	4731
60°	654	879	4221
65°	510	836	3384
70°	429	781	2293
75°	399	700	998
80°	397	694	646
85°	498	893	695

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5482 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	6.4
10°-20°	255.3	16.8
20°-30°	333.7	21.9
30°-40°	324.8	21.3
40°-50°	242.7	15.9
50°-60°	150.5	9.9
60°-70°	79.1	5.2
70°-80°	28.8	1.9
80°-90°	10.9	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	686.2	45.1
0°-40°	1011.0	66.4
0°-60°	1404.2	92.2
0°-90°	1523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1020	1034	1035	1041	1050	95
15°	842	867	903	958	995	235
25°	614	646	711	807	880	281
35°	368	408	497	629	733	229
45°	134	175	283	442	563	113
55°	68	71	100	260	394	61
65°	31	34	51	110	208	33
75°	15	18	26	29	38	16
85°	6	11	11	11	9	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1046.0	1054.8	1048.5	1048.5	1049.8
5°	1019.7	1033.5	1034.7	1041.0	1049.8
7.5°	983.4	999.7	1009.7	1028.5	1042.3
10°	940.9	959.7	978.4	1009.7	1029.7
12.5°	893.4	915.9	943.4	985.9	1014.7
15°	842.1	867.1	903.4	958.4	994.7
17.5°	788.3	814.5	859.6	925.9	969.7
20°	730.7	759.5	813.3	888.4	942.2
22.5°	671.9	704.4	763.2	848.3	912.1
25°	614.3	645.6	710.7	807.0	879.6
27.5°	554.3	586.8	658.1	764.5	844.6
30°	493.0	528.0	603.1	720.7	808.3
32.5°	431.7	467.9	549.3	675.6	772.0
35°	367.9	407.9	496.7	629.4	733.2
37.5°	307.8	350.3	442.9	581.8	691.9
40°	246.5	290.3	390.4	535.5	650.6
42.5°	186.4	231.5	336.6	488.0	609.3
45°	133.9	175.2	282.8	441.7	563.0
47.5°	102.6	126.4	232.7	394.1	521.8
50°	90.1	97.6	185.2	347.8	475.5
52.5°	78.8	83.8	137.6	302.8	435.4
55°	67.6	71.3	100.1	260.3	394.1
57.5°	57.6	61.3	76.3	221.5	351.6
60°	47.5	51.3	63.8	182.7	306.5
62.5°	40.0	41.3	57.6	146.4	256.5
65°	31.3	33.8	51.3	110.1	207.7
67.5°	26.3	27.5	45.0	78.8	160.2
70°	21.3	22.5	38.8	55.1	113.9
72.5°	18.8	18.8	32.5	40.0	72.6
75°	15.0	17.5	26.3	28.8	37.5
77.5°	12.5	17.5	22.5	21.3	20.0
80°	10.0	16.3	17.5	17.5	16.3
82.5°	8.8	13.8	15.0	13.8	12.5
85°	6.3	11.3	11.3	11.3	8.8
87.5°	5.0	10.0	8.8	8.8	6.3
90°	0.0	0.0	0.0	0.0	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	6.67	8.02	7.04	8.34	8.65	16.38	17.73	16.75	18.04	18.36
	3H	7.51	8.71	7.89	9.04	9.41	17.29	18.49	17.67	18.82	19.18
	4H	7.87	8.99	8.28	9.34	9.72	17.39	18.51	17.79	18.86	19.24
	6H	8.25	9.27	8.66	9.64	10.04	17.38	18.40	17.79	18.77	19.17
	8H	8.43	9.40	8.86	9.79	10.20	17.36	18.34	17.79	18.73	19.13
	12H	8.59	9.52	9.03	9.91	10.34	17.35	18.28	17.78	18.66	19.09
4H	2H	7.50	8.62	7.91	8.97	9.35	16.23	17.35	16.63	17.70	18.08
	3H	8.56	9.48	8.97	9.88	10.28	17.22	18.13	17.63	18.54	18.94
	4H	9.02	9.83	9.45	10.25	10.70	17.35	18.17	17.78	18.59	19.03
	6H	9.57	10.28	10.04	10.73	11.19	17.38	18.09	17.84	18.53	19.00
	8H	9.84	10.50	10.30	10.94	11.41	17.38	18.04	17.85	18.49	18.96
	12H	10.08	10.66	10.57	11.15	11.62	17.39	17.97	17.88	18.46	18.93
8H	4H	9.57	10.23	10.04	10.68	11.15	17.27	17.93	17.74	18.38	18.85
	6H	10.35	10.89	10.85	11.39	11.87	17.33	17.87	17.84	18.37	18.85
	8H	10.77	11.25	11.29	11.77	12.26	17.36	17.85	17.88	18.36	18.85
	12H	11.19	11.62	11.70	12.11	12.68	17.42	17.85	17.93	18.34	18.91
12H	4H	9.63	10.22	10.12	10.70	11.17	17.24	17.82	17.73	18.31	18.78
	6H	10.49	10.98	11.01	11.49	11.99	17.30	17.78	17.82	18.30	18.79
	8H	11.02	11.45	11.54	11.95	12.52	17.37	17.79	17.88	18.29	18.86